

FIG. 1

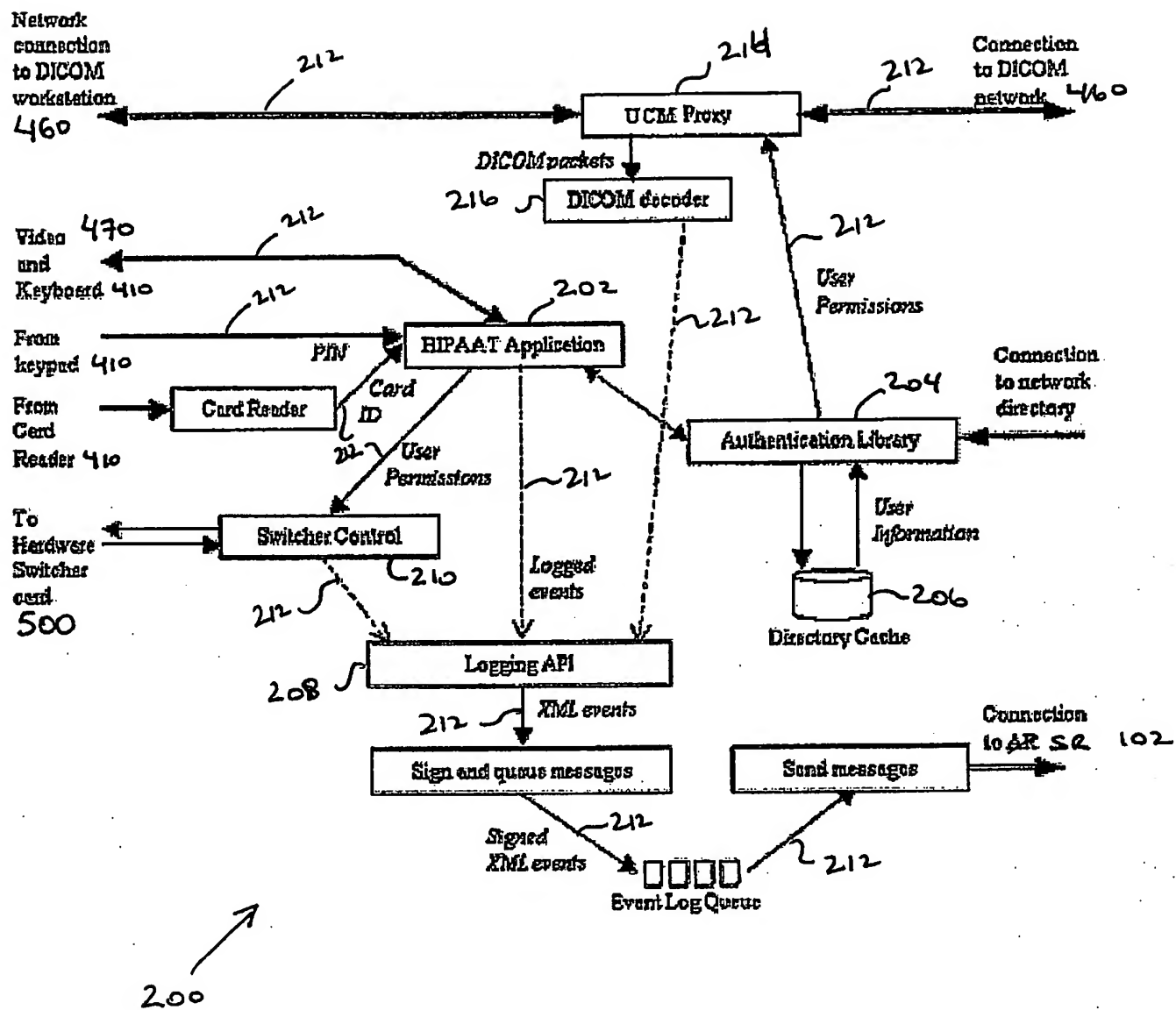
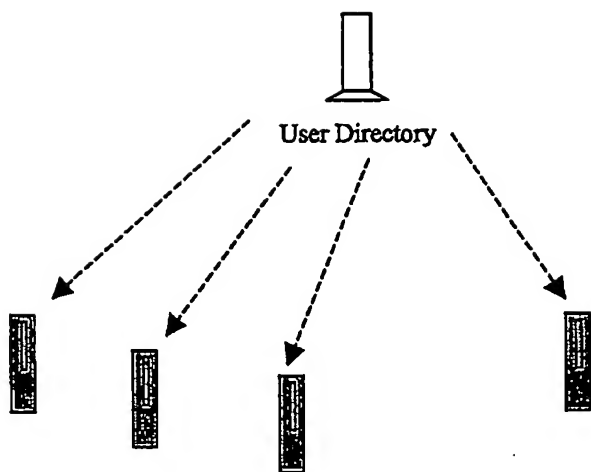
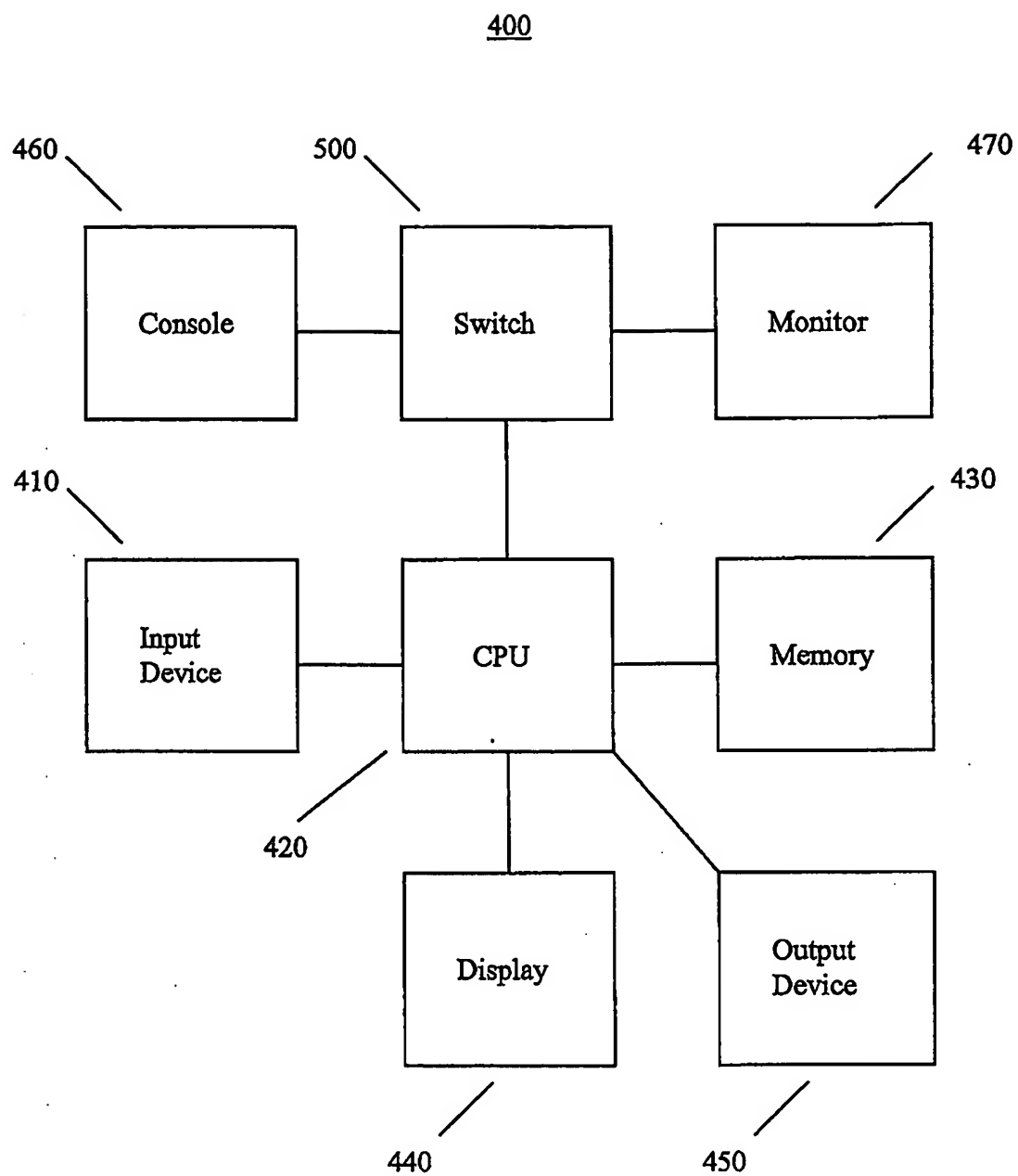


FIG. 2



**FIG. 3**



**FIG. 4**

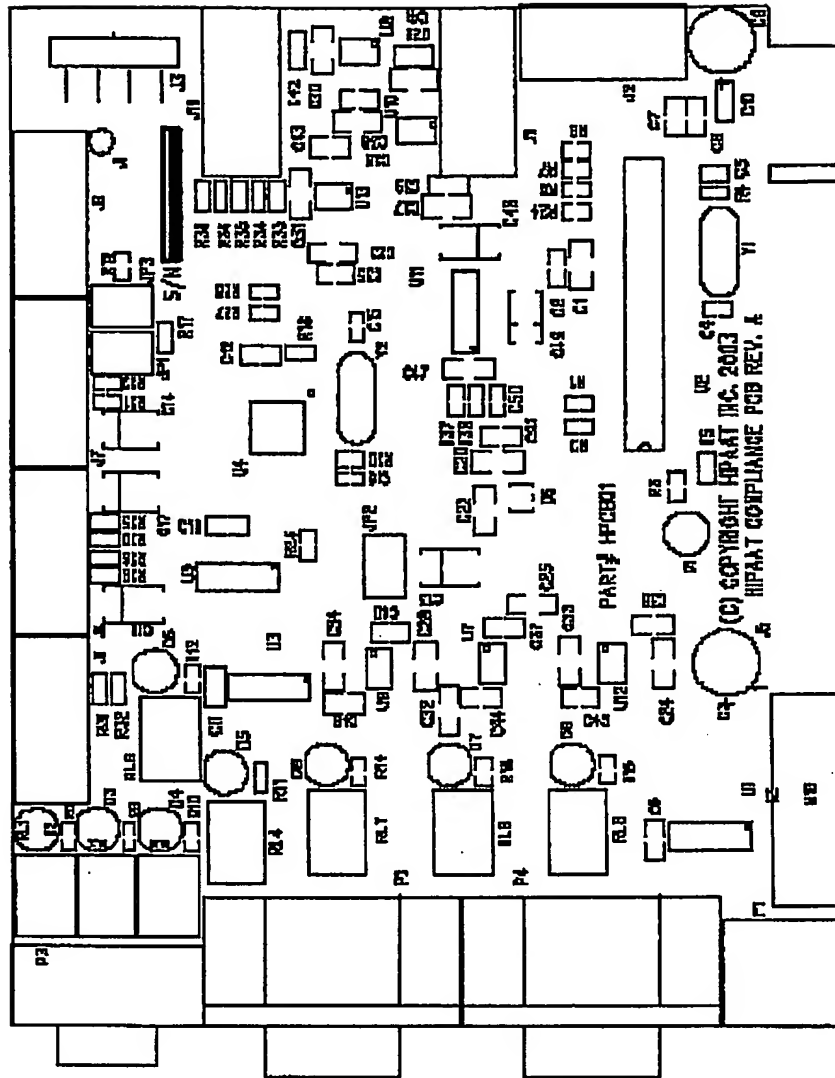


FIG. 5

PREPARED BY: DT TITLE: HIPAAT COMPLIANCE PCB DATE: OCT-91-2003	HIPCCBDA A SILK SCREEN C/S
--	-------------------------------

# HIPAAT Gateway Compliance Board

Bill Of Materials Page1

Item	Qty	Reference	Description	Value	Package	Manufacturer	Part Number	sq. mm	Ext. Area
1	3	C1,C20,C22 C2,C6,C7,C8,C10,C1	4.7UF 16V MLC X5R 10%	4.7UF 16V	1206	Kemet	C1206C475K4PAC TU	72	216
2	211	C12, C19,C21,C35,C36,C3 7,C38, C39,C40,C41,C42,C4 3,C44, C45,C46	0.1UF MLC X7R 50V 10%	0.1UF	0805	AVX	08055C104KAT2A	40	840
3	2	C9,C3	220UF 16V ELECT CAP	220UF 16V	0.1" RADIAL	Panasonic	EEU-FC1C221	70	140
4	4	C4,C5,C15,C16 C13,C14,C17,C18,C4	22PF NP0 50V 5% 100UF 16V TANTALUM LOW	22PF 100UF	0603 D CASE	AVX AVX	06035A220JAT2A TPSD107K016R0125	18	72
5	58	C23,C24,C25,C26,C2 C29,C30,C31,C32,C3 3,C34, C47	ESR 10%	2.2UF	1206	AVX	1206YD225KAT2A	30	150
6	137	C28,	2.2UF 16V MLC X5R	2.2UF	1206	AVX	1206YD225KAT2A	72	936
7	1	C49	10UF 16V TANTALUM LOW	10UF	C CASE	Vishay	593D106X9016C2T	20	20
8	1	C50	ESR 10%	2200PF	0603	AVX	06035C222KAT2A	18	18
9	1	C51	Red LED	LED	0.1" RADIAL	Panasonic	THMP2750AIRS	13	135
10	3	C52	3x1 Imper block	CON3	Resistor	Amn	6497523	20	60

Fig. 6(a)

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10	U10	CONJ1	01F PAD		10	10
11	U11	EX2 header	Header bxc	Sheet	AMP	60
12	U12	EX2 header	Header bxc	Sheet	AMP	60
13	U13	EX2 header	Header bxc	Sheet	AMP	60
14	U14	POL type connector	POL V A	Cold fingers	N/A	900
15	U15	POL type connector	POL V B	Cold fingers	N/A	900
16	U16	MIDIN position	MIDIN BR	Sheet	CLUT	120
17	U17	ISPMI Female WESA WGA	D815 FEV KALE	Sheet	AMP	500
18	U18	High density 15 pos DSUB	HIGH DENSITY	Sheet	LIT Cannon	250
19	U19	SV DPDI RELAY	GGK ZP DCB	Sheet	OMRON	65
20	1R1	Resistor 47K 1/16W 5% SMT 47K	0603	Vishay	CRCW0603473JRT1	18
21	1R2	Resistor 1K 1/16W 5% SMT 1K	0603	Vishay	CRCW0603102JRT1	18
22	2R28,R3	Resistor 10K 1/16W 5% SMT 10K	0603	Vishay	CRCW0603103JRT1	18
23	1R4	Resistor 47R 1/16W 5% SMT 47R	0603	Vishay	CRCW0603470JRT1	18
24	R5,R9,R10,R11,R12, SMT	Resistor 330R 1/16W 5%	0603	Vishay	CRCW0603331JRT1	18
25	R14,R15,R16 2R6,R7	Resistor 33R 1/16W 5% SMT 33R	0603	Vishay	CRCW0603330JRT1	18
26	3R8,R18,R20 R17,R19,R21,R22,R2 123,R24,	Resistor 1.5K 1/16W 5% SMT 1.5K	0603	Vishay	CRCW0603152JRT1	18
27	R25,R26,R29,R30,R3 1,R32	Resistor 15K 1/16W 5% SMT 15K	0603	Vishay	CRCW0603153JRT1	18
28	1R27 R33,R34,R35,R36,R3	Resistor 4.7K 1/16W 5% SMT 4.7K	0603	Vishay	CRCW0603472JRT1	18
29	59	Resistor 75R 1/16W 1% SMT 75R	0603	Vishay	CRCW06037500FRT1	18
30	1R37	Resistor 20K 1/16W 1% SMT 20K	0603	Vishay	CRCW06032002FRT1	18
31	1R38	Resistor 102K 1/16W 1% SMT	102K	Vishay	CRCW06031023FRT1	18

Fig. 6(b)

33	U2	8bit microcontroller with USB	PLC16C743-1SP	Microchip	PLC16C743-1SP	270	270
34	U4	7 port USB hub	TUS32077A	TI	TUS32077A-PT	80	80
35	U5	USB power switch	IPS2017A	TI	IPS2017A	80	80
36	U6	Low power 60mA LDO	IPS76333	TI	IPS76333DEVI	10	10
37	U7	Dual high speed opamp	LV5172/SOIC	National	LV5172IM	50	180
38	U8	3V6 med cap voltage converter	LM1084/SO	TI	LM1084QDW	80	80
39	U9	6V2.1V 100mA 12V	6V2.1V	CTS	6V2.1V	55	110

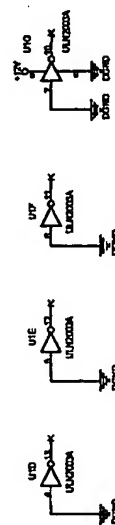
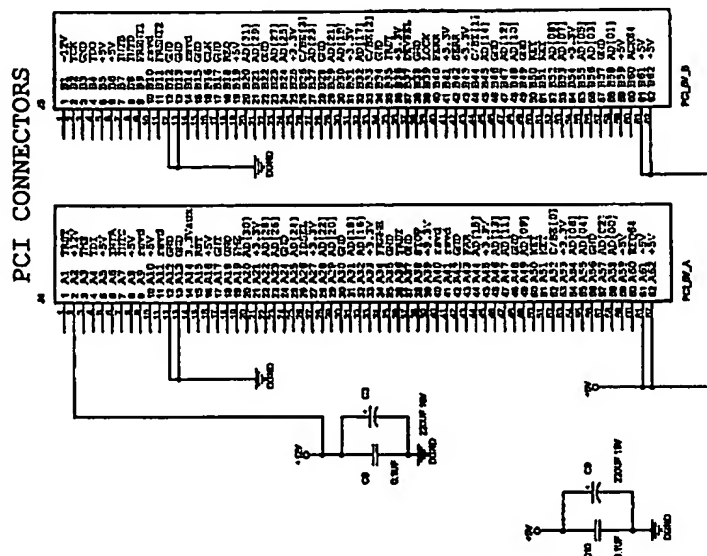
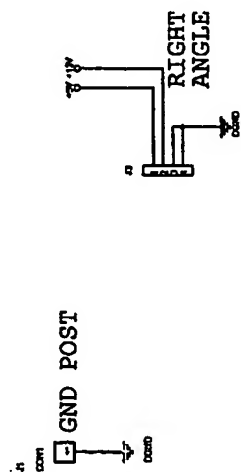
7694

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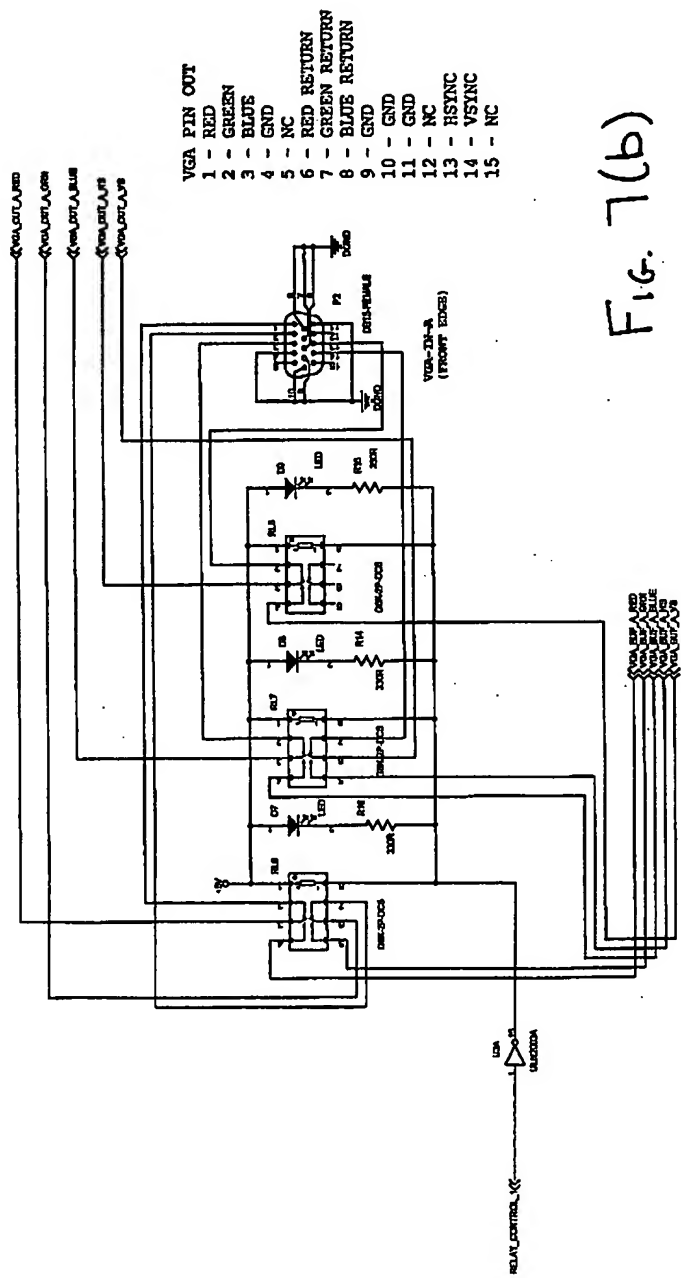
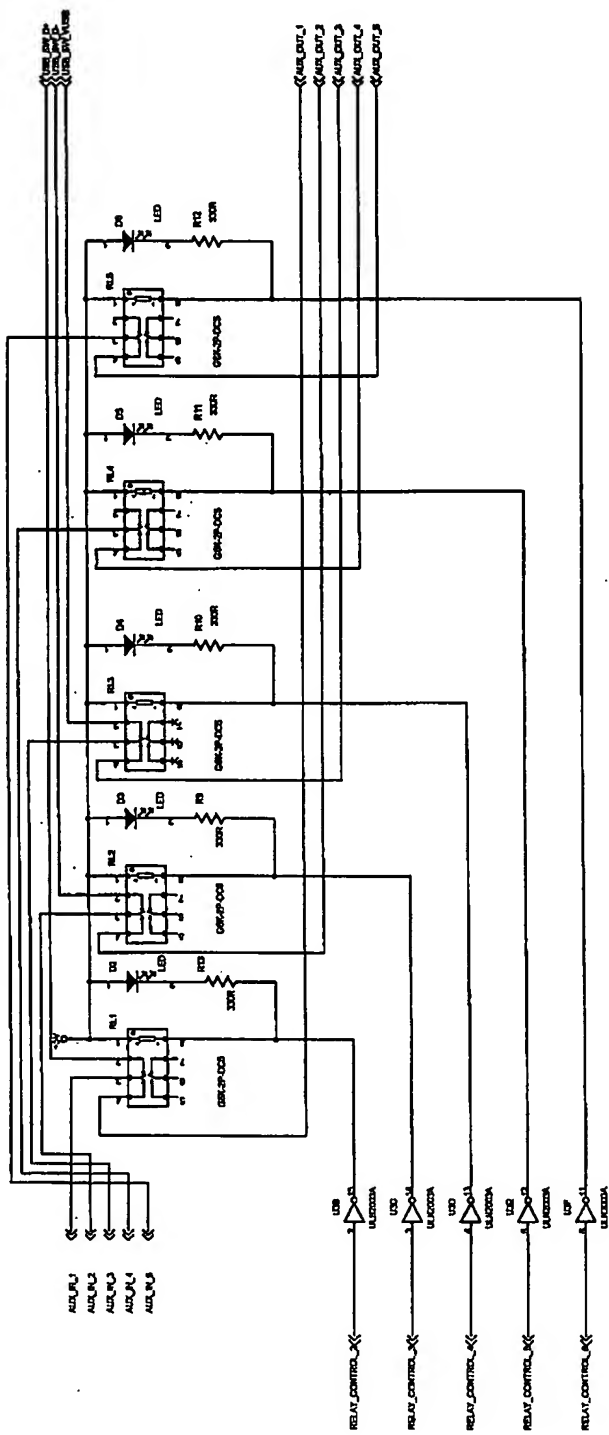
Fig. 6 (c)



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$$7(a)$$
[illegible]

## SIGNAL SWITCHING



VGA PIN OUT

- 1 - RED  
2 - GREEN  
3 - BLUE  
4 - GND  
5 - NC  
6 - RED RETN  
7 - GREEN RETN  
8 - BLUE RETN  
9 - GND  
10 - GND  
11 - GND  
12 - NC  
13 - HSYNC  
14 - VSYNC  
15 - NC

UN-USED PARTS

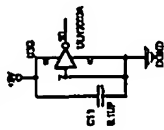


Fig. 7(b)

Controlled impedance PCB Zo = 50ohm

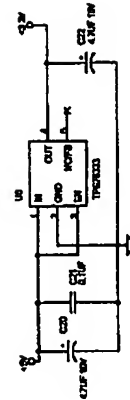
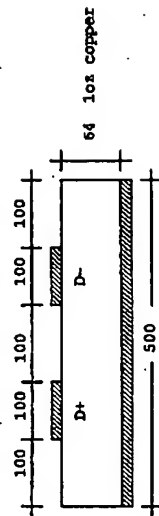
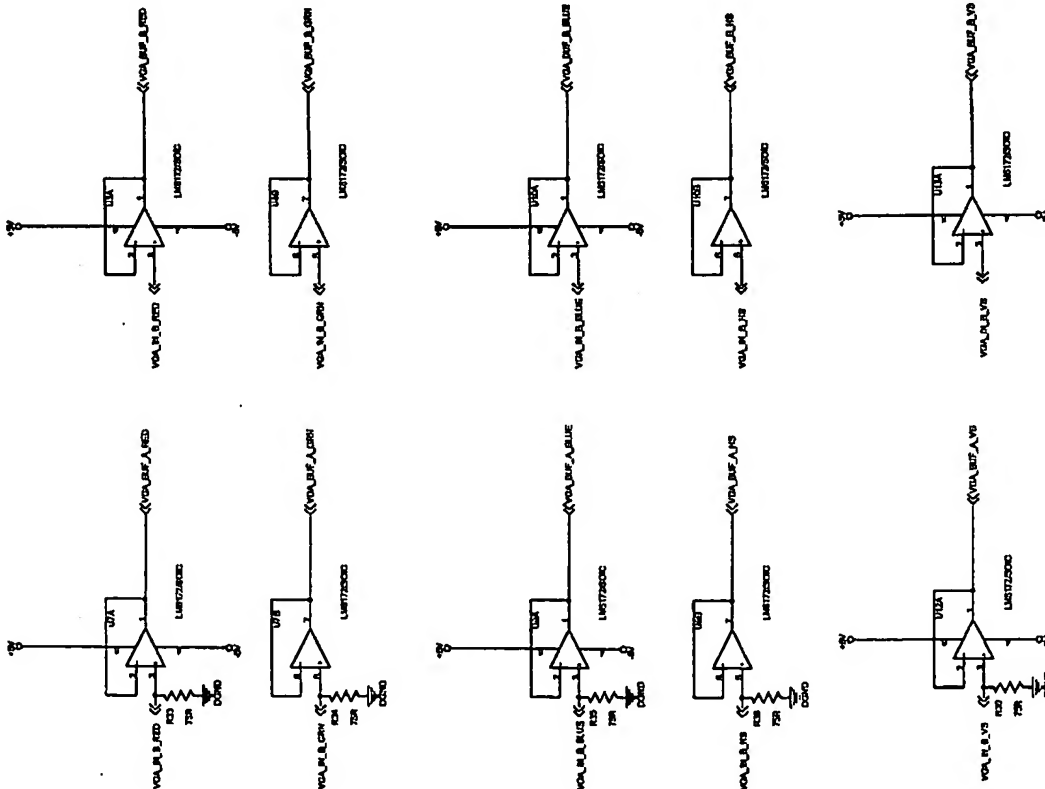
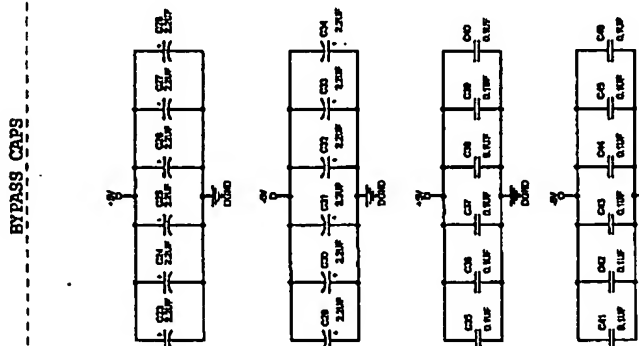
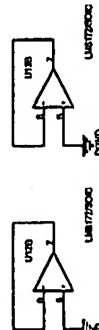


Fig. 7(c)

# VGA BUFFERS

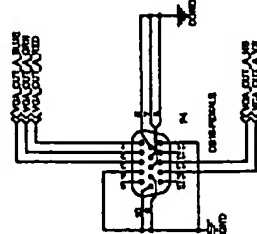


## UN-USED PARTS

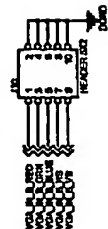


PLACE CAPS AS CLOSE TO GROUND POWER SUPPLY PINS AS POSSIBLE

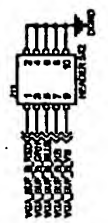
## VGA OUT A



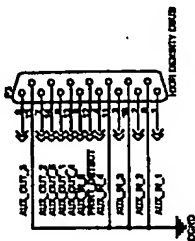
## VGA IN B



## VGA OUT B



## GENERIC IN/OUT PRINT DETECT



$$VOUT = -(Rout/Rref - 1) \times 1.21$$

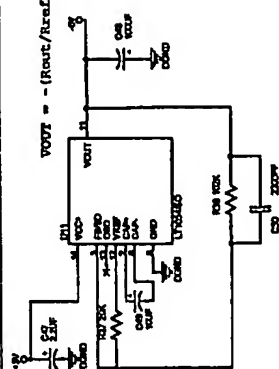
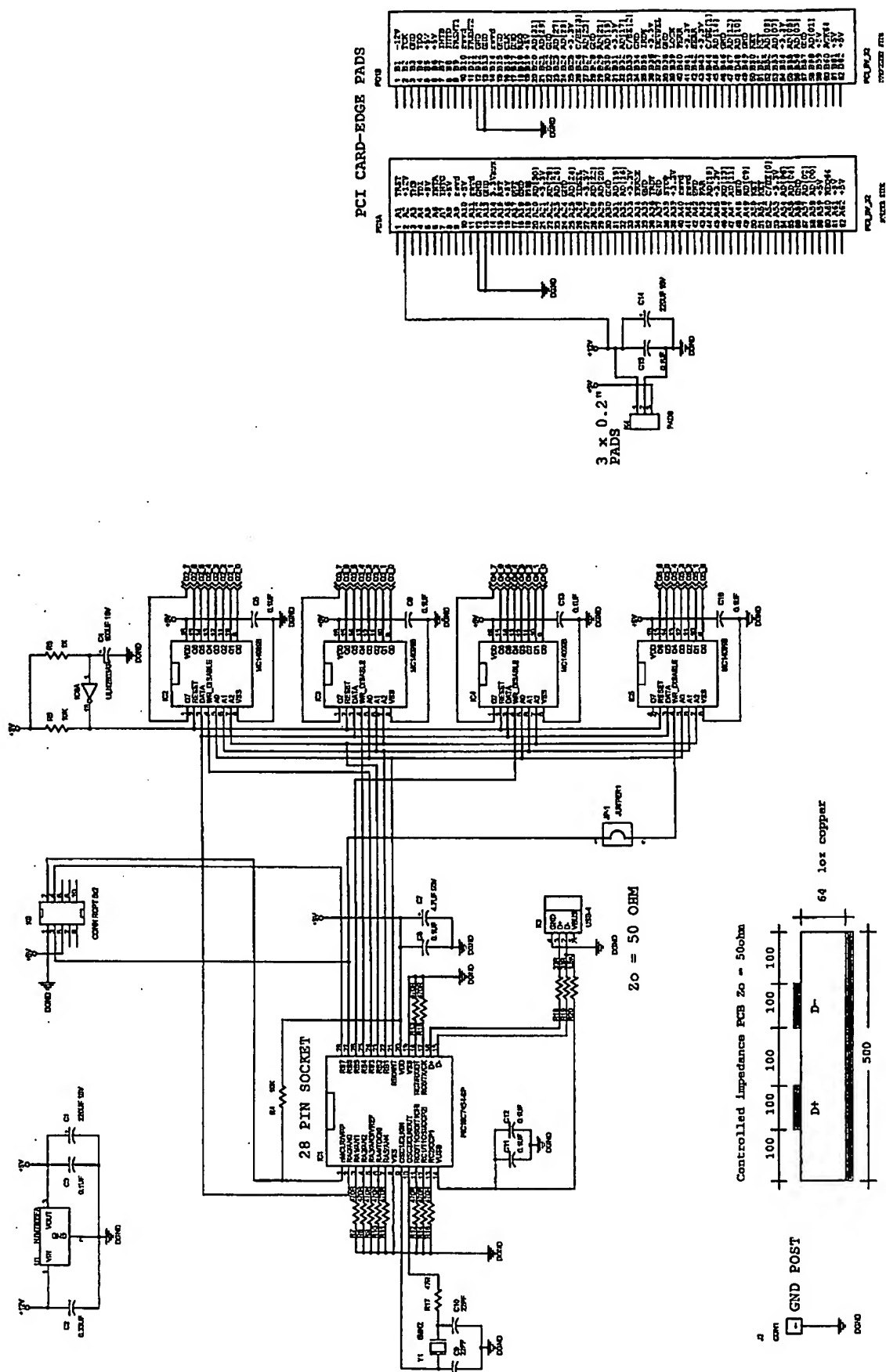


Fig. 7(d)

1	74VHC04	Hex Inverter
2	74VHC04	Hex Inverter
3	74VHC04	Hex Inverter
4	74VHC04	Hex Inverter
5	74VHC04	Hex Inverter
6	74VHC04	Hex Inverter
7	74VHC04	Hex Inverter
8	74VHC04	Hex Inverter
9	74VHC04	Hex Inverter
10	74VHC04	Hex Inverter
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93	74VHC04	Hex Inverter
94	74VHC04	Hex Inverter
95	74VHC04	Hex Inverter
96	74VHC04	Hex Inverter
97	74VHC04	Hex Inverter
98	74VHC04	Hex Inverter
99	74VHC04	Hex Inverter
100	74VHC04	Hex Inverter



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**The Baranti Group Inc.**

210 Cochran Dr., Unit #3, Markham  
Ontario, Canada L3R 8E8

Tel (805) 479-0148 Fax (805) 479-0149

Project Name/Client

Project no.:

<b>Date:</b>	<b>Mo</b>
--------------	-----------

### Main SW Board

932038

November 18, 2002

**Index**

**Designed.**

File Ref:

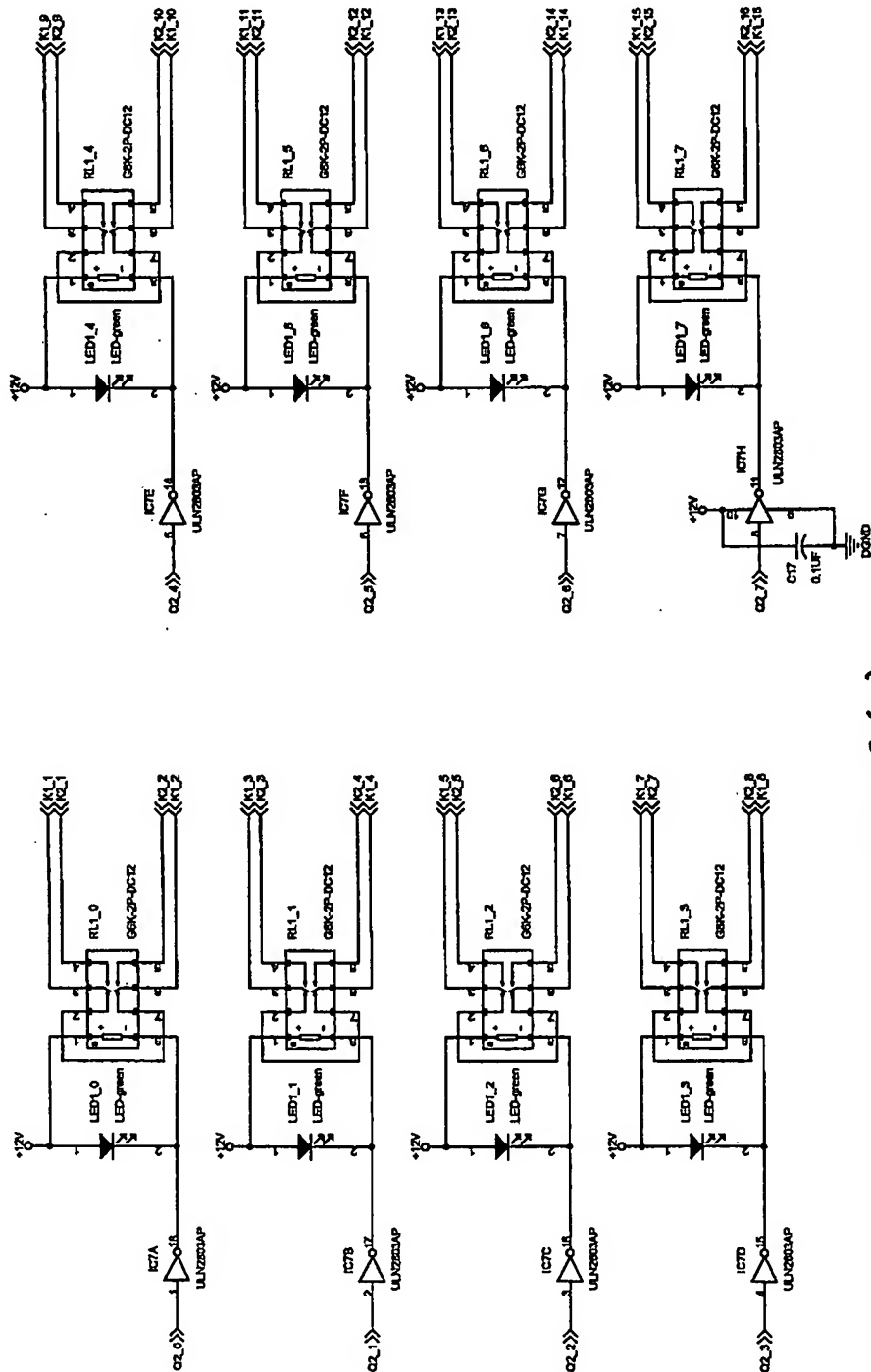


FIG. 9 (a)

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**The Baranti Group Inc.**  
210 Cochran Dr., Unit #6, Markham  
Ontario, Canada, L3R 8E8  
Tel: (805)-478-0148 Fax: (805)-479-0149

Project Name/Client: Main SW Board  
Project no.: J02038  
Date: Monday, November 18, 2002

Title: Page 1  
Designed: Mihal Veres  
File Ref: SCH0281A.DSN

ECO No.	Dwg	By
PCB Ver.: PCB0281A		
Dwn: Yurli Stoyanov		
Released By:		
Sheet 2 of 5		

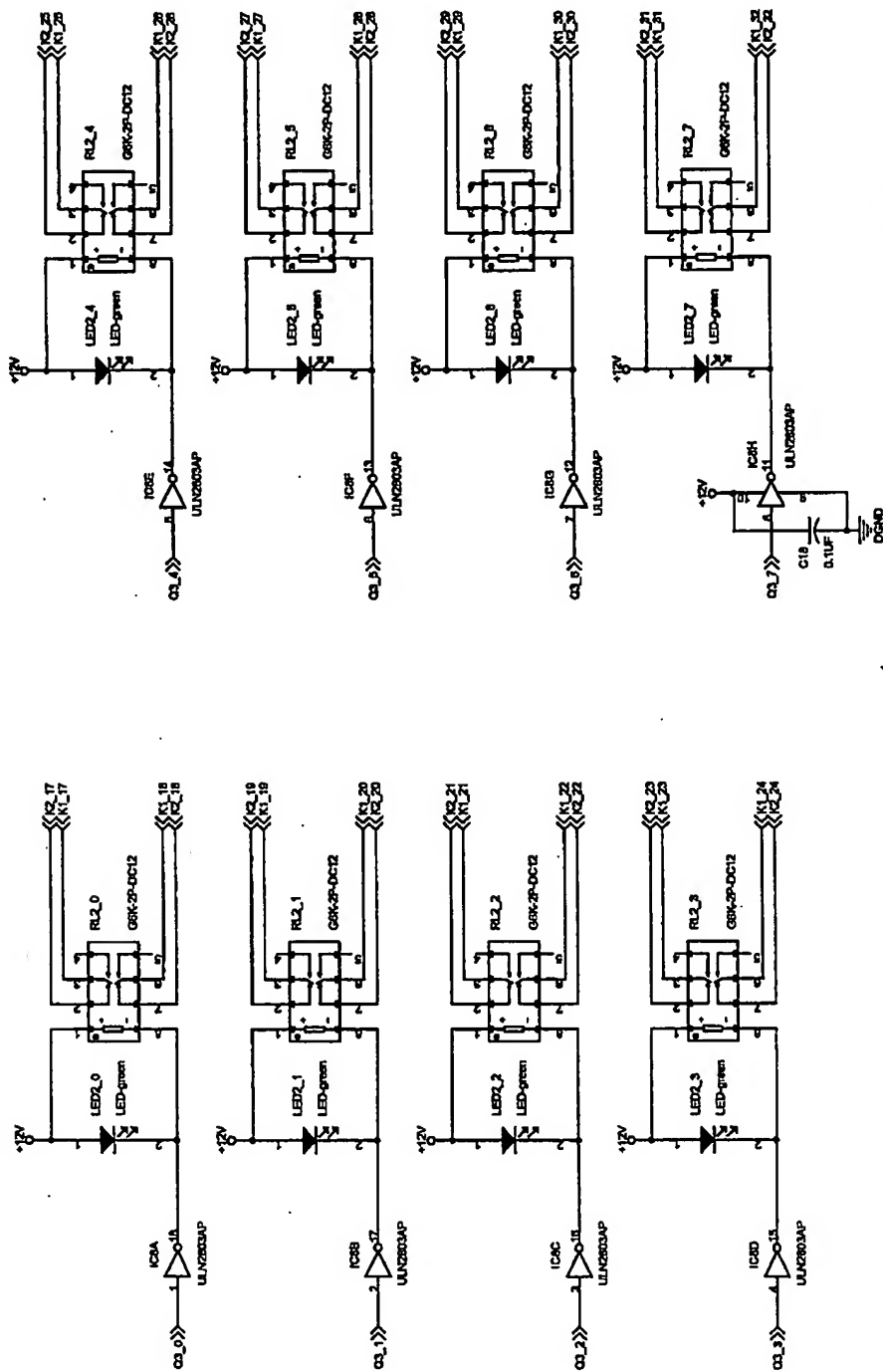


FIG. 9(b)

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The Baranti Group Inc. 210 Cochran Dr., Unit 88, Markham Ontario, Canada, L3R 8E8 Tel: (905) 479-0148 Fax: (905) 479-0149		Project Name/Client Main SW Board	Title Page 2	ECO No.	Date	By
Project no.: J02038		Designed: Mihai Veres	PCB Ver.: PCB0281A	Released By:		
Date: Monday, November 18, 2002		File Ref: SCH0281A.DSN	Drwn: Yuri Stoyanov	Sheet 3 of 5		

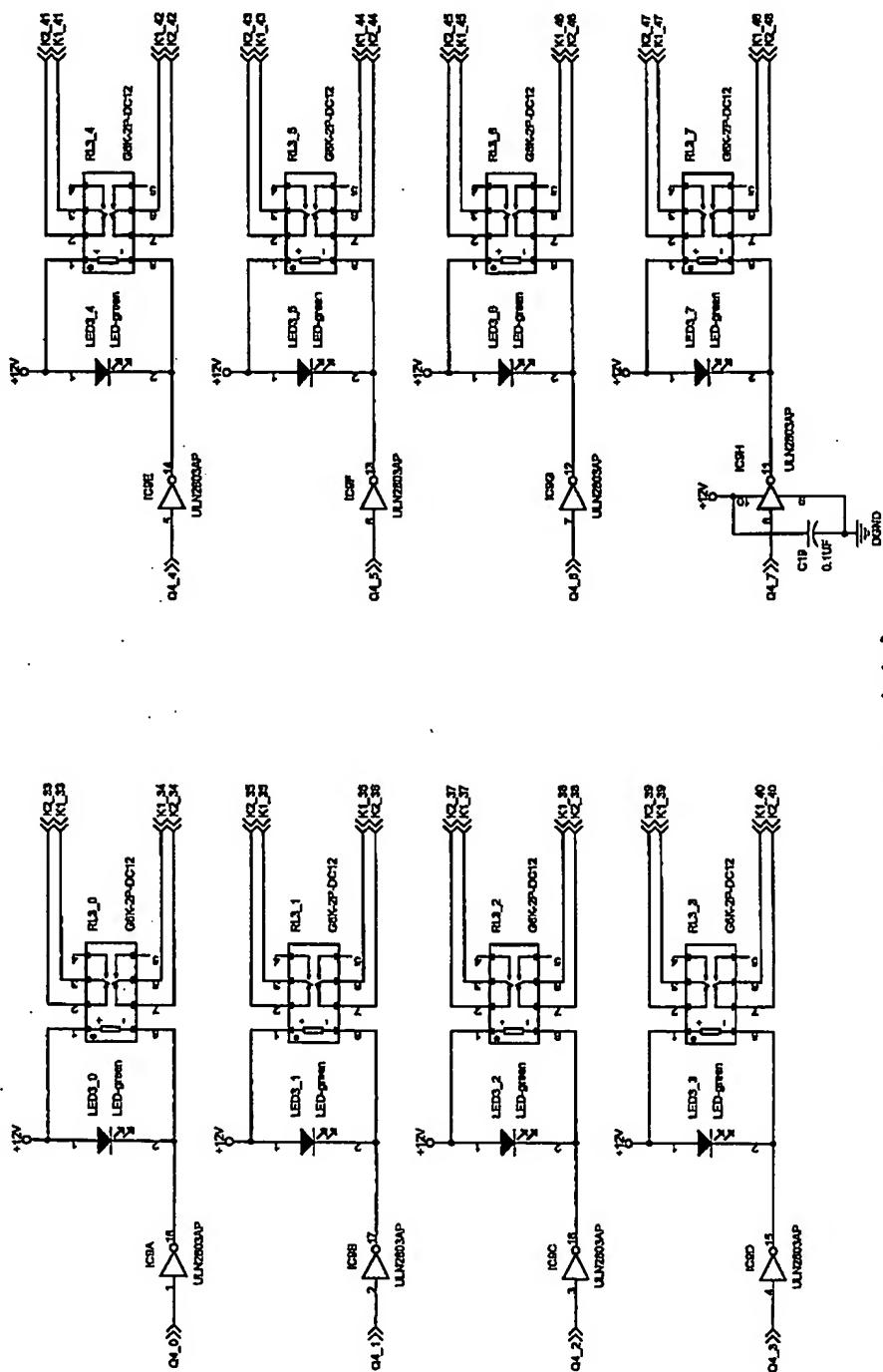


FIG. 9(c)

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**The Baranti Group Inc.**

210 Cochrane Dr., Unit 88, Markham  
Ontario, Canada, L3R 8E5

Tel: (905) 479-0148 Fax: (905) 479-0149

Project Name/Client Main SW Board

Project no.: J02038

Date: Monday, November 18, 2002

Title: Page 3

Designed: Mihai Veres

File Ref: SCH0281A.DSN

ECO No.

Date

By

PCB Ver.: PCB0281A

Dwn: Yuri Stoyanov

Released By:

Sheet 4 of 5



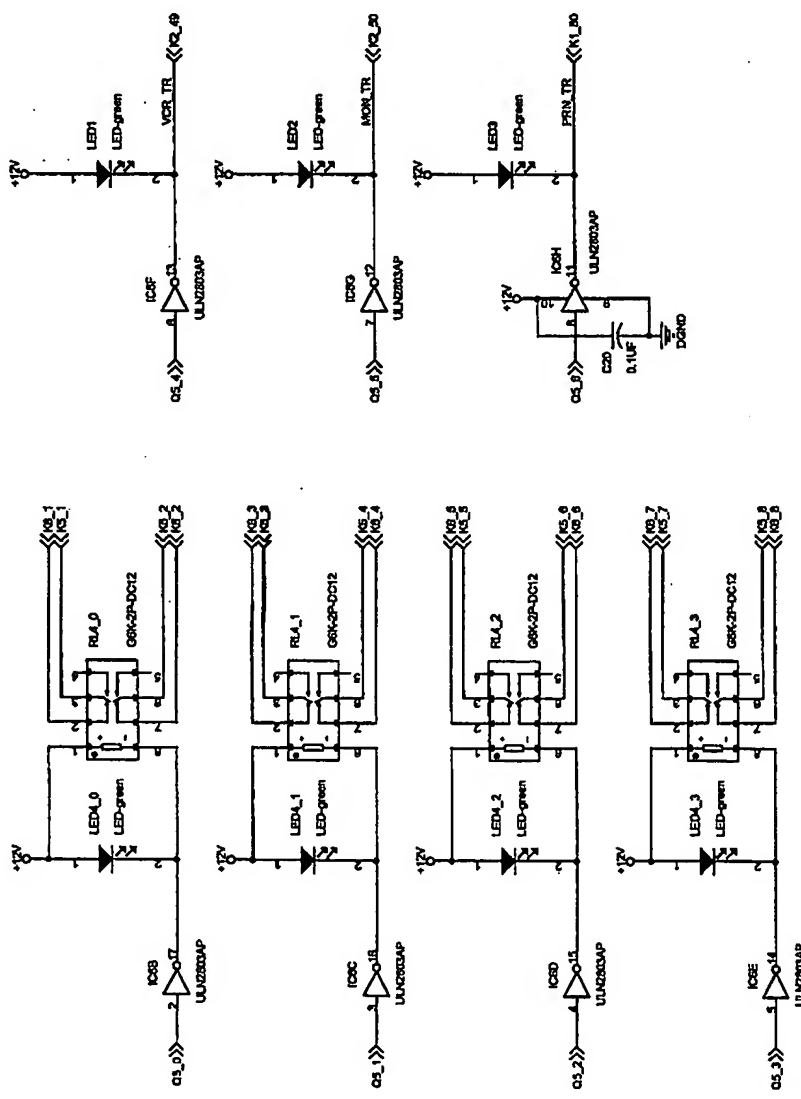
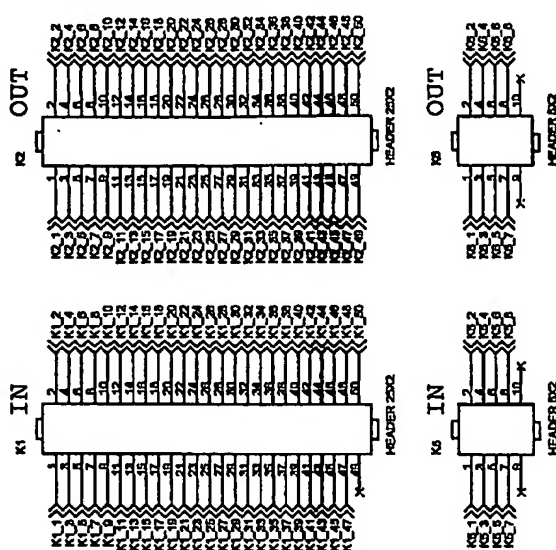
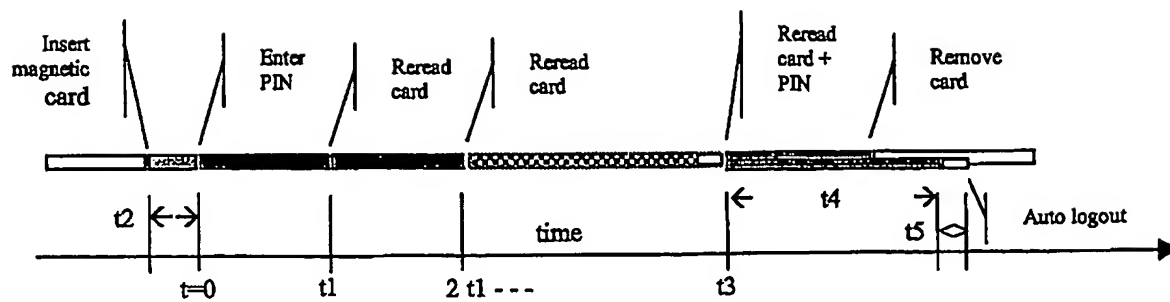


FIG. 9(d)

The information on this drawing is proprietary and may not be copied or transmitted in any way unless with the written consent of the Barant Group Inc.				ECO No.		Date	By
The Barant Group Inc.				Project Name/Client		Title:	Page 4
210 Cochran Dr. Unit #3, Markham Ontario, Canada, L3R 8E8				Main SW Board		Designed:	Mihal Veres
Tel: (905)-478-0148 Fax: (905)-478-0149				Project no.:		File Ref:	SCH0281A.DSN
				Date:		Sheet	5 of 5
				Released By:		Yuri Stoyanov	
				PCB Var.:		PCB0281A	





**FIG. 10**

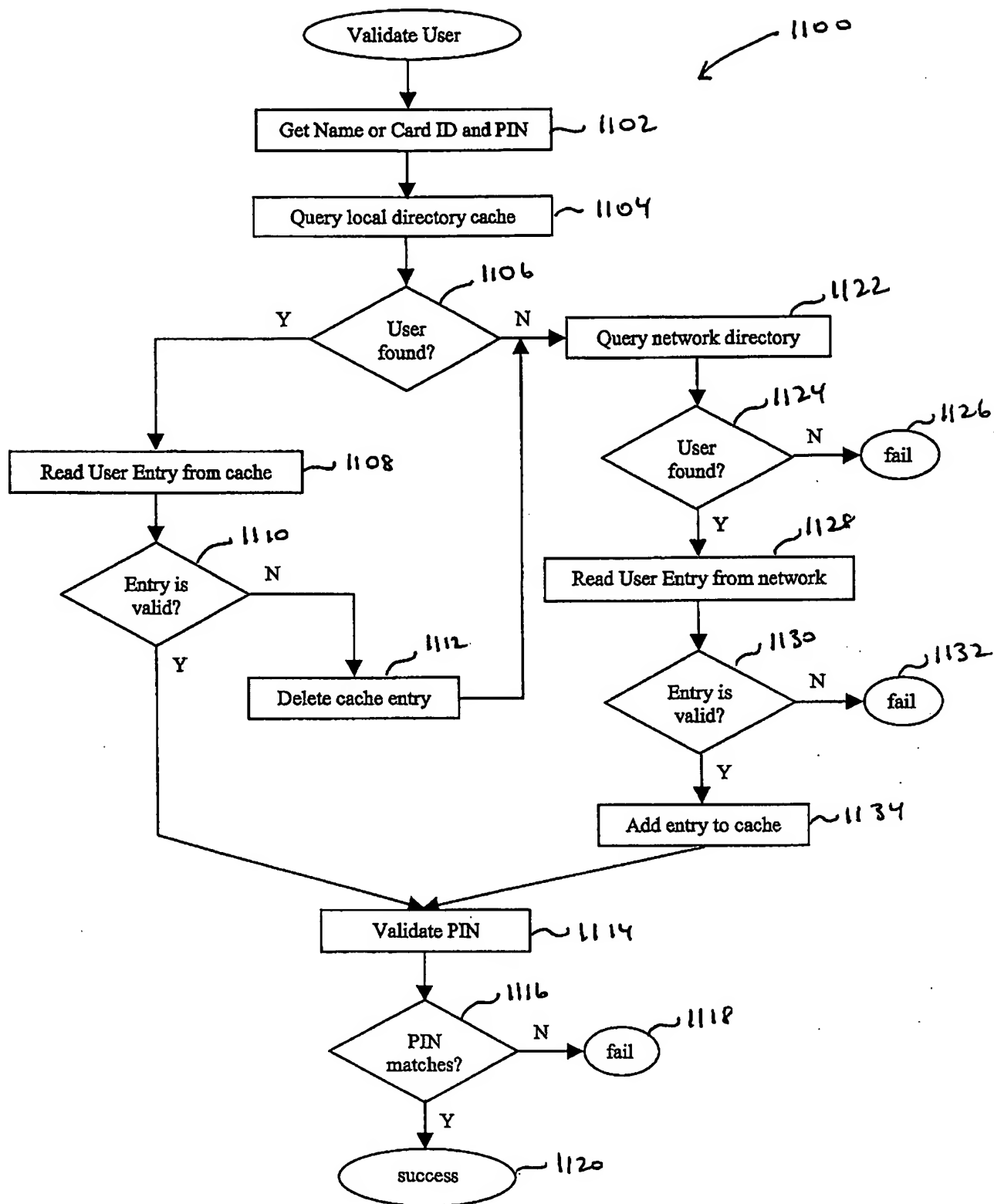


FIG. 11

```

<IHE-Syslog-Audit-Message>
  <Instances-stored>
    <Remote-node>
      <IP-address>10.0.2.3</IP-address>
      <Hostname>workstation</Hostname>
      <AB-Title>FIRSTAB</AB-Title>
    </Remote-node>
    <instance-action-description>
      <Object-Action>Create</Object-Action>
      <Accession-number>0283721693</Accession-number>
      <Study-uid>1.2.840.10008.3.3.3.1234</Study-uid>
      <Patient>
        <Patient-ID>98838737</Patient-ID>
        <Patient-name>John Doe</Patient-name>
      </Patient>
      <user>
        <local-user>msmith</local-user>
      </user>
      <SOP-Class-UID>1.2.840.10008.5.1.4.1.1.2</SOP-Class-UID>
      <SOP-Class-UID>1.2.840.10008.5.1.4.1.1.11.1</SOP-Class-UID>
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      <number-of-instances>189</number-of-instances>
      <MPPS-uid>1.2.840.10008.3.3.3.1237</MPPS-uid>
    </instance-action-description>
  </Instances-stored>
  <Hostname>thishost</Hostname>
</IHE-Syslog-Audit-Message>

```

FIG. 12

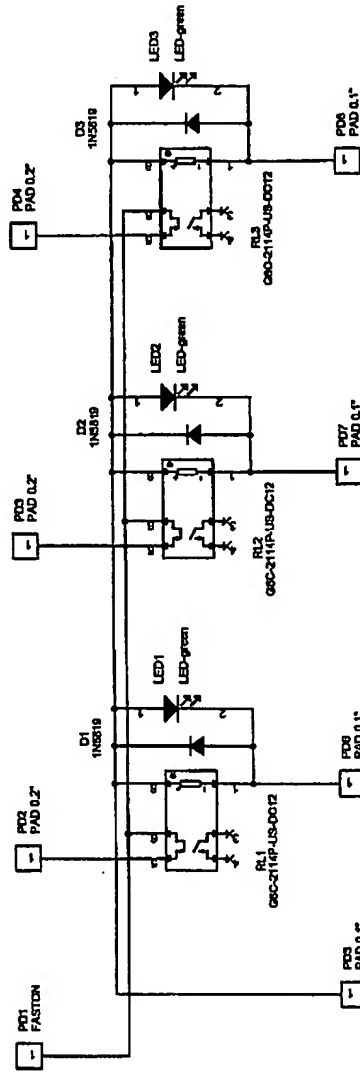


FIG. 13

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210 Cochran Dr., Unit #6, Markham  
Ontario, Canada, L3R 8E8

Tel: (905)-479-0148 Fax: (905)-479-0149

Project Name/Client

Project no.: J02033

Date: Friday, November 15, 2002

Title: POWER SWITCH

Designed: <Designed>

File Ref: SCH0000A.DSN

PCB Ver.: PCB0000A

Dwnl: Yur Stoyanov

Released By:

ECO No.

Date

By

B

Sheet

1

of

1